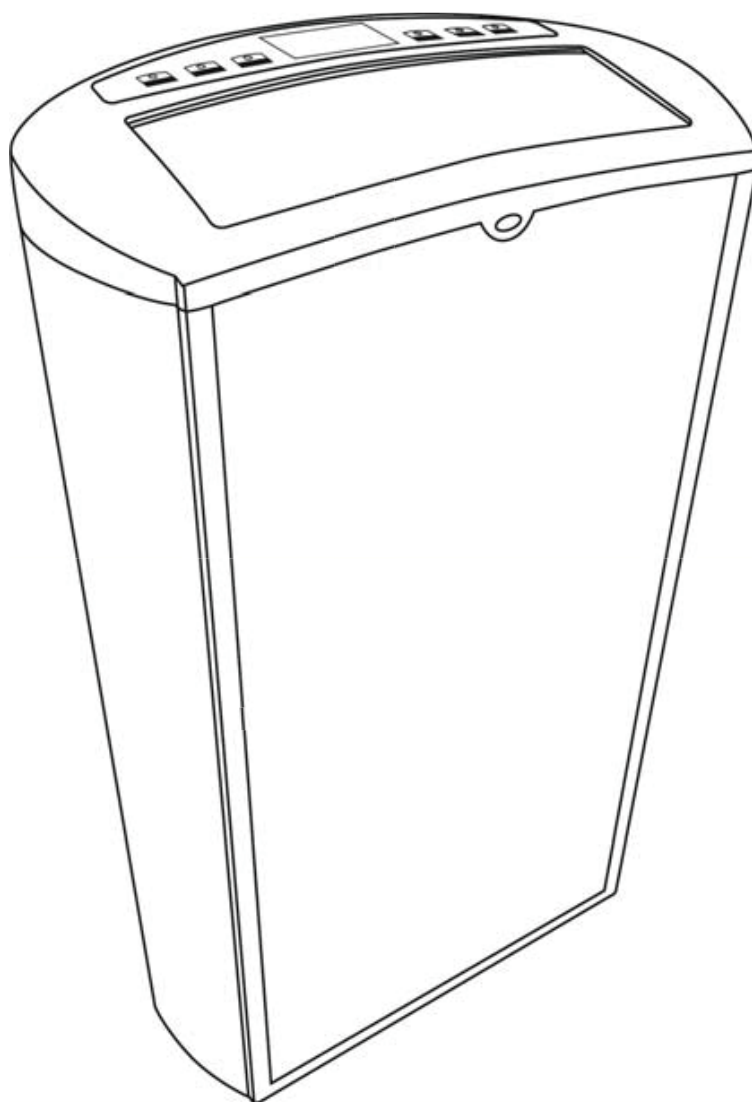




## Owner's Manual

# Portable Air Conditioner

MODEL ACW800CH



It is important that you read these instructions before using your new purchase and we strongly recommend that you keep them in a safe place for future reference.

## Innovative AutoDrain NanoMist Technology

Patent Pending

# Table of Contents

Thank You! .....	I
Safety Instructions .....	I-2
Specifications .....	3
Parts .....	4
Positioning .....	5
Control Panel .....	6
Remote Control .....	7
Multi Protective Function .....	8
Emptying the Water Container .....	9
Cleaning .....	10
Troubleshooting .....	11
Warranty .....	13

# Thank You!

Thank you for purchasing an American Comfort Portable Air Conditioner. American Comfort is a leading brand in indoor air treatment. We would like you to enjoy the many benefits this unit offers, so please read this manual carefully and take full advantage of the many advanced features that your American Comfort Portable Air Conditioner offers you.

American Comfort has specialized in complete indoor environment control, manufacturing world-class air conditioners, dehumidifiers and air purifiers with innovative technology.

In designing these advanced products, we have listened carefully to our customers and have passed their views onto our research and development laboratories.

We wish you many years of enjoyable use.

After reading this manual, please keep it in a safe place for future reference.

**Read this entire instruction manual before use.**

**Please keep your receipt and the unit's original box for a warranty return.**

## Safety Instructions

### IMPORTANT!

- The unit is designed for indoor operation.
- The unit is not designed to cool server rooms, sun rooms, or a room generating constant high levels of heat.
- Rating: This unit must be connected to a 115V/60Hz grounded outlet.
- The installation must be in accordance with regulations of the country where the unit is used.

If you are in any doubt about the electrical installation, have it checked and if necessary modified by a qualified electrician.

- Never connect the unit to an electrical outlet using an extension cord.  
If an outlet is not available, one should be installed by a licensed electrician.
- The air conditioner is safe. However, as with any electrical appliance, use it with care.
- Keep out of the reach of children.
- Do not clean the unit by spraying it or immersing it in water.
- Do not insert any object into the openings of the unit.
- Disconnect the unit from the outlet before cleaning the unit or any of its components.

### WARNING!

- Never operate this appliance if it has a damaged cord or plug.
- Do not lead the cord over sharp edges.
- A damaged supply cord should be replaced by the manufacturer, its service agent or a qualified person in order to avoid a hazard.
- Any service other than regular cleaning or filter replacement should be performed by an authorized service representative. Failure to do so could result in a loss of warranty.
- See warranty page to read about warranty requirements, procedure, and instructions.

# Safety Instructions

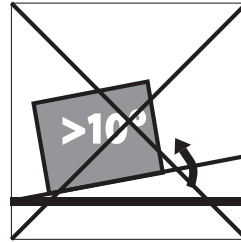
**Do not use your air conditioner:**



If the power cable wires are frayed or cut



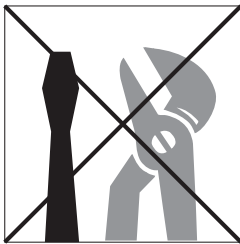
When small children may be left unattended



On a slope or uneven surface



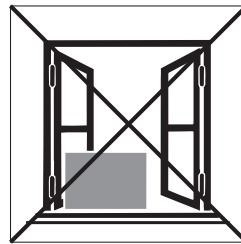
Close to a heat source



This products is not made for DIY repair



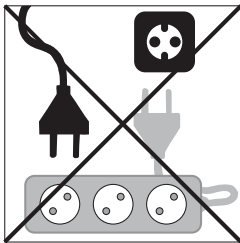
If there is a risk of liquid falling on the unit



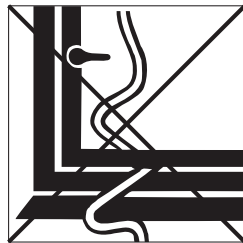
Inside unit exposed to the weather outdoors



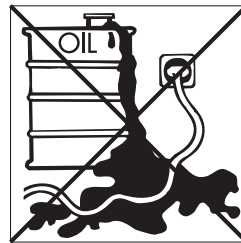
In a permanent very humid environment



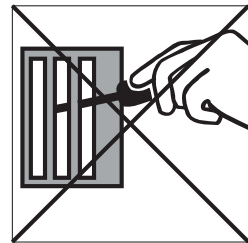
Do Not Connect the unit to extension cord.



Where the power cable may be damaged



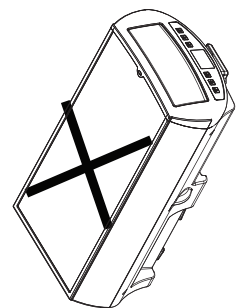
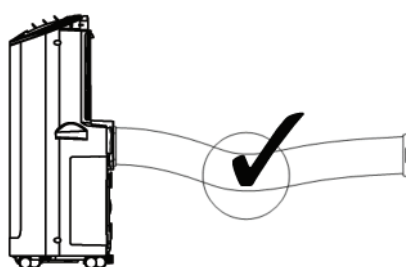
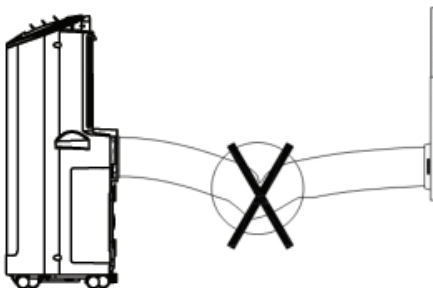
Where it may be damaged by chemicals



Where there is a risk of interference by foreign objects

## IMPORTANT:

The first time that you use the unit, please ensure that it has been standing in an upright position for at least 2 hours before it is switched on. The AC unit must always be stored and transported upright. The unit is not to be used in temperatures under 41°F or over 95°F.



## Reminder:

Unit Contains R410A. Waste electrical products must not be disposed of with household waste. This product should be taken to your local recycling center for safe treatment.

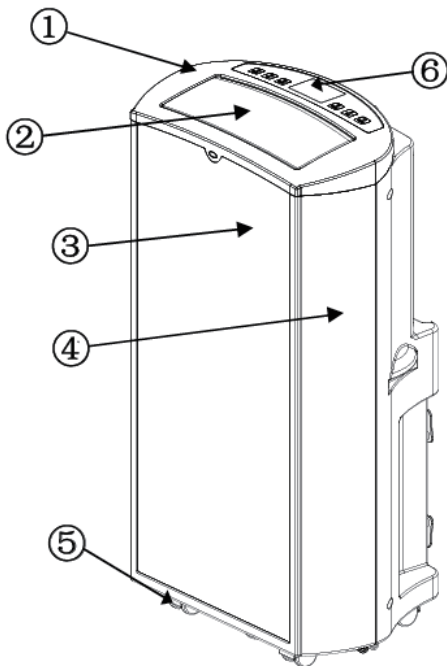


# Specifications

Model	ACW800CH
Cooling/Heating Capacity	14,000 BTU/h / 15,000 BTU/h
Cooling Power Consumption / Current	1380W/12.0A(in cooling and heating mode)
Moisture Removal in Cooling mode	65 pints/day
Power Supply	110-120V/60Hz
Refrigerant	R410A
Compressor	Rotary
Fan Speed	3 Speeds
Thermostat	60°F - 86°F
Ambient Temperature Range for Operation	44°F - 95°F
Timer	1-24 hour Timer
Dimensions	18.5"W x 33.1"H x 13"D
Weight	72.6 lbs
<p>The cooling capacity of the unit may be affected by the height of your ceiling, quality of your insulation, or number of windows in your room. There is no current testing statute for portable air conditioning products in the United States, yet we have made every effort to design engineer a superior quality portable air conditioning unit that effectively and efficiently cools select areas of the home or office.</p> <p>These portable air conditioning units are designed engineered to provide supplemental air conditioning. To gain a better understanding of the performance capabilities of your new ACW portable AC unit, you can visit us online at: <a href="http://www.americancomfort.com">www.americancomfort.com</a></p>	

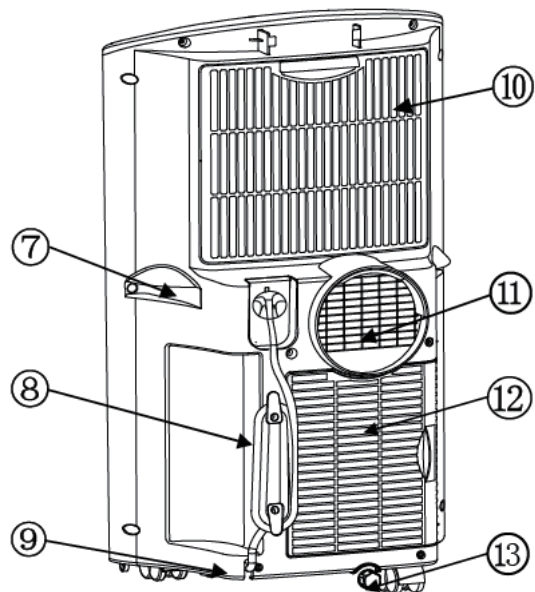
# Parts

**Front Side**



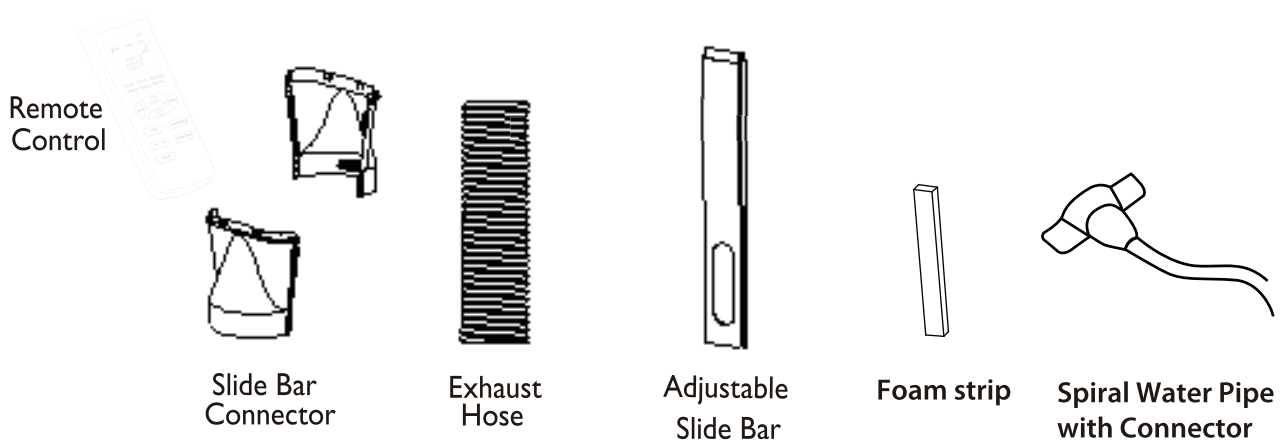
- 1. Top Cover
- 2. Outlet
- 3. Aluminium Composite Panel
- 4. Front Cover
- 5. Casters
- 6. Control Panel
- 7. Handle
- 8. Power Cord

**Back Side**

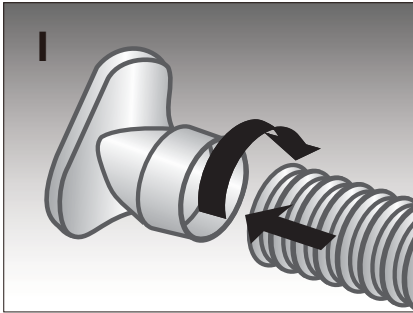


- 9. Chassis
- 10. Upper Filter Frame
- 11. Exhaust connector
- 12. Lower Filter Frame
- 13. Rubber Plug

Check packing accessories and read your user's manual to learn how to use them.



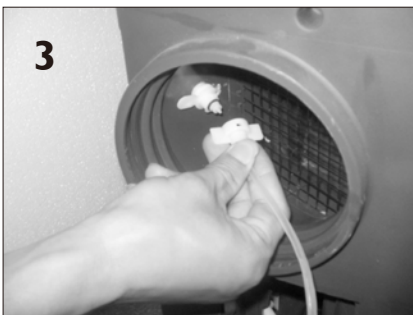
# AutoDrain NanoMist Technology™ Assembly



Attach Window Slide Bar Connector to Exhaust Hose by twisting as shown.



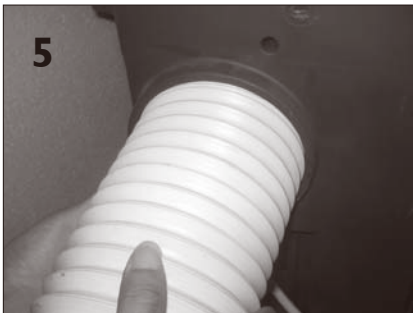
Put spiral water pipe into hot air exible hose.



Connect the female half of the quick connector at the end of the spiral water pipe to the male part in the hot air outlet pipe.



Turn the connector 90 degrees clockwise until it is locked in place.



Assemble the hot air hose on the unit.



Clip on the water atomizer at the end of the spiral pipe to the holder.



Unfold exible hose with attached hose adapter connector, and snap into Window Slide Bar.



**Only Required For Disassembly.**

In order to unlock the quick connector, push the tab and turn the connector counter-clockwise.

# Positioning

This unit can easily be moved from one room to another. In doing, so keep this in mind:

- The air conditioner must stand upright on an even surface.
- Do not position near bath, sink, or other permanent, wet or damp area.
- Keep unit at least 18" from wall, curtains, draperies, or heat sources to insure adequate air circulation.

## Assembling the Outer Adaptor

Align the two halves of the Outer Adaptor and gently snap together (Figure A).

Note: To prevent damage, do not use excessive pressure.

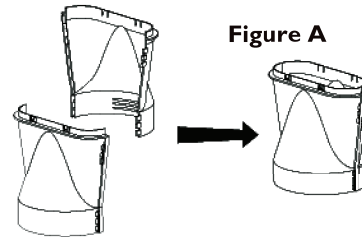


Figure A

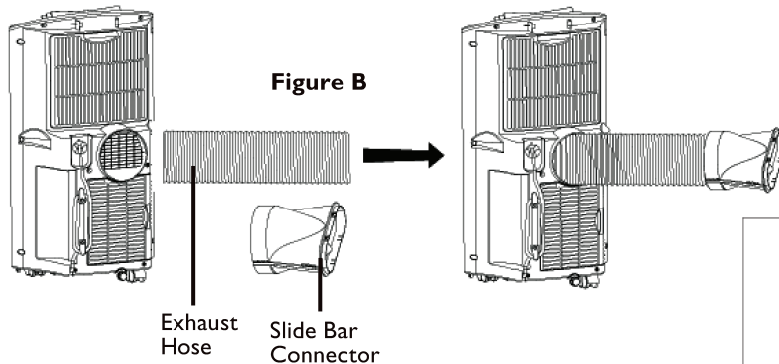


Figure B

Exhaust  
Hose  
Slide Bar  
Connector

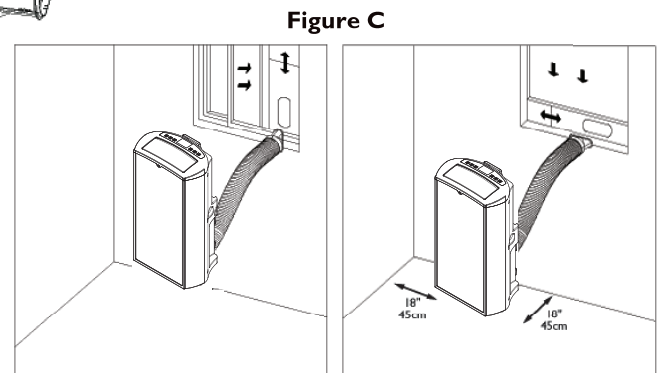


Figure C

## Installing Exhaust Hose to Window Slide Bar

Note: The window kit is only designed to be installed with sliding windows or doors. The window kit is not designed or to be used with casement style windows.

### Step 1:

Measure your window kit according to the dimensions of your sliding window. If in case the unit is larger than your required dimensions, it can be cut using a saw or power tool of the sort. If the unit is too short for your opening, you can order an additional window kit from our online store to extend it.

### Step 2:

Screw slide bar connector into exhaust hose first, then spin the exhaust hose into the air outlet located at the rear of the unit (counter-clockwise) (Figure B).

### Step 3:

Insert slide bar connector into adjustable slide bar. Extend the Slide Bar length to match the width of the window (vertically or horizontally), and then tighten the screw to hold the length of the slide bar (Figure D). Make sure the adjustable slide bar fits snug in your window and stays in place. Proceed to close and lock your window on the Slide Bar to secure in place (Figure C).

## IMPORTANT

The exible hose can be extended from 10.63" to 59" for mounting

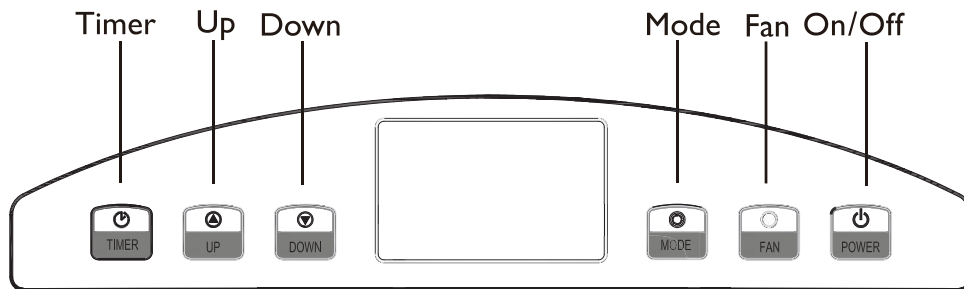
We recommend that you keep the hose as short as possible to minimize possible loss back in the room.

This length has been designed especially according to the speci cations of the air conditioner.

Do not use an extension or exchange for a different hose as that may lead to malfunctioning.

The exhaust air must flow freely. Any blockage can lead to overheating of the air conditioner. Handle with care to prevent any kink or bend in the exhaust hose.

# Control Panel



When plug in, follow the start music, unit is in standby status. Digital screen will indicate temperature (Range: 41°-95°F), if temperature above 95°, screen will show “H”, if below 41°, indicate “L”.

**ON/OFF BUTTON:** When press this button, model will be in cooling mode (Setting temperature 75°), high speed fan. Press again, unit will shut off and play shut off music.

**MODE BUTTON:**

Press this button can cool,Fan, Dry,Energy Saver, Heat(Cooling only don't have this function) cool . . . Mode switchching

**FAN BUTTON:**

- Under cooling mode: HIGH FAN - MIDDLE FAN - LOW FAN
- Under fan model: same as cooling mode
- Under dehumidifying mode, fan is working in low speed
- If switch between cooling and fan, fan speed won't change.

**TIMER BUTTON:**

Press once, TIMER icon ashes, “88” area indicates 24:00; you can set your time with UP and DOWN buttons. You can set auto shut off time when the unit is running, you can also set auto running time when the unit is off. When you finishing the setting, icon will continue ashing until the current time is right the setting time. If set again, history record will be cleared.

**UP AND DOWN BUTTONS:**

Set temperature and timer. Under cooling,Heating , temperature range is 64°~86°, press Up and Down buttons together can exchange to:

**SLEEPING KEY:**

Under cooling or heating mode, press the key can make unit into sleeping mode, LCD will show the Sleeping Icon, press again to cancel Sleeping mode.

**SWING BUTTON:**

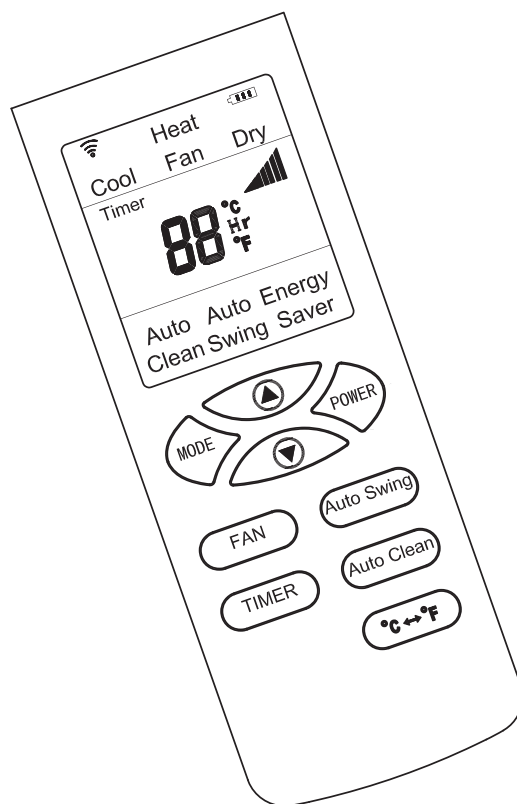
Press this key to start auto swing function, press again to cancel.

**MIGHTINESS KEY:**

Press this key to choose mightiness function:

You can get cooling effect quickly only under cooling mode.

# Remote Control



1. **POWER:** Press this key to turn on/off the button.
2. **MODE:** Press this key to choose cooling, dehumidifying, fan
3. **UP:** Press this key to turn up temperature or adjust time.
4. **DOWN:** Press this key to turn down temperature or adjust time.
5. **FAN:** Press this key to set low/middle/high fan speed.
6. **SWING:** Press this key to control swing function.
7. **CLEAN:** Press this key to control clean function.
8. **TEMPERATURE:** Press this key to choose Celcius or Fahrenheit.
9. **TIMER:**  
Press this key to set time. Within 5 hours, time interval is half hour; from 5 hours to 24 hours, time interval is 1 hour. Once set number will flash 5 times as confirmation.

# Multi Protective Function

## Freeze Prevention Control

When the ambient temperature is very low under Cooling and Dehumidifying Mode, the compressor and water motor will stop working if the copper coil temperature  $T_p < 2^\circ$  after the compressor continued to work for 10 minutes, the LCD Display E4; when copper coil temperature will increase  $> 8^\circ$ , the protection will be dis-functioned automatically, and restore to foregoing mode for Compressor Three-minutes Delay protection function. It is strongly suggested not to use cooling or dehumidifying mode when the temperature is too low.

## Water-Full Water Level Protection

Water-level protection is done by the water-level switch. Water-level switch is always closed, and it will open when the protection function runs.

- a) When checking the water-level protection, compressor must work. After 10 seconds moving, the water-level switch will go to stability that is water-level protection.
- b) When the water-level is higher than the protective water-level, the water-level switch will move( compressor is at work), the LCD displays "P2", pls drainage (the way of drainage as below 5th).

## Auto Overheat Protective Function

To use for longer time, this model have auto overheat protective function in heating mode, it can protect compressor and down motor effectively (stop them working) when unit temperature back to normal, unit will back to working again.

## Compressor Delay-Protection

Except of the 1st power-on, the compressor can work at once, in other cases; the compressor runs under 3 minutes delay protection.

## Energy Saving:

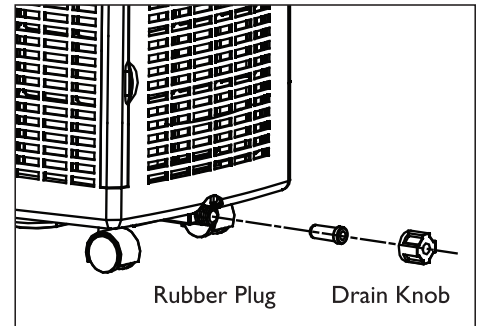
Press any key on the control panel, background light will turn off after 10 seconds.

# Emptying the Water Container

In case of the **WATER FULL (W.F.) LED** alert, the unit is required to be drained. At the end of **AC Season**, this unit should be drained prior to storage. In both situations, we recommend that you take the following steps.

Switch off the unit and remove the plug from the outlet.

- Position a flat container or dish on the floor under the drain hole. Use container only for temporary draining of the unit, do not allow the water to drip continuously into the container, as it might easily overflow.
- Remove the drain knob.
- Remove the rubber plug, the water will flow in the container. When this is nearly full, replace the plug to stop the water flow and empty it. Repeat this process until all water has been removed.
- For seasonal storage purposes, put the unit **ON** in fan mode on a warm, dry day for a couple of hours to ensure that the inside can dry out completely. We also recommend allowing the unit to air dry for a period of 24 hours without the drain plug and cap in place.
- Insert the rubber plug into the drain hole firmly, the **WATER FULL LED (W.F.)** should not flash any longer.
- Screw on the drain knob.

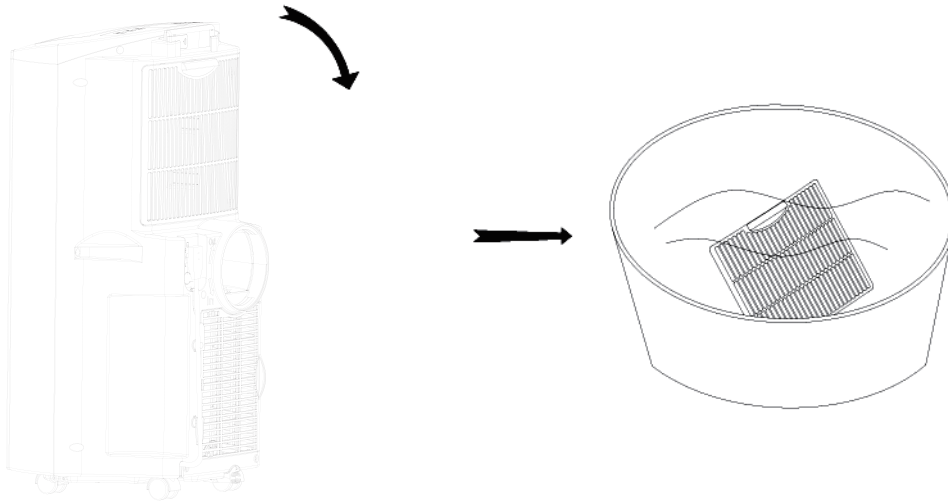


## Additional maintenance/tasks prior to storage.

- Clean or change the filter.
- Store the power cable as shown, protect the unit against dust (put back into its original carton) and store in a dry place not accessible for children.
- To protect the unit against dust, store in a dry place not accessible by children
- Do not stock heavy objects on top of the unit



# Cleaning



Always unplug the unit from the power supply (wall outlet) before beginning the cleaning.

## Housing

Use a soft, damp cloth to wipe the body clean. Never use strong chemicals, oil-based products, detergents, chemically treated cloths or other cleaning solutions. These could possibly damage the housing.

## Filter

Clean the filters every two weeks, if filters are blocked by dust, machine efficiency will be reduced.

Use a vacuum cleaner or tap the filter lightly to remove loose dust and dirt from the filters and then rinse them thoroughly under running water. You may also immerse it gently into warm water with a neutral detergent, rinse it, and dry it thoroughly in a shaded place.

In either case, water should not be warmer than 104 F.

Dry thoroughly with a soft cloth before inserting them back into the unit.

**Notice! Never operate the air conditioner without the filters.**

**Please Note: Active carbon filter can be taken out after removing the filter frame and should be cleaned or changed every 2-3 weeks based on the environment.**

# Troubleshooting

**Never try to repair or dismantle the air condition yourself.**

**Incompetent repairs result in loss of warranty and can endanger the user and the property.**

Problem	Cause	Solution
The air conditioner does not function.*	No power supply. Make sure the green light on the plug is lit.	Connect to a functioning outlet and switch on. See below for Plug and Reset button application.
	Is the power light flashing? Is the water full LED lit?	Empty the water container.
	The unit is in direct sunlight.	Close curtains/shades
The air conditioner does not seem to perform.	Windows or doors open, many people or a heat source in the room.	Close doors and windows. Unit is not made to cool server rooms, sun rooms, or any rooms generating a constant
	The filter is dirty.	Clean the filter.
	Air inlet or air outlet blocked.	Power off the unit and unplug from outlet. Remove blockage.
	Room temperature lower than the selected value.	Change temperature selection. Set at the lowest possible setting: 60°F.
The unit is noisy.	Unit stands uneven.	Place on an even, solid surface (less vibrations).
The compressor does not work.	The overheat protection may be activated.	Wait 30 minutes until the temperature has decreased, then turn on the unit again.
The remote control does not function.	Distance too great.	Make sure the remote control is correctly aimed at the control panel.
	Remote control signal not detected by the control panel.	
	The batteries are drained.	Check batteries on remote.

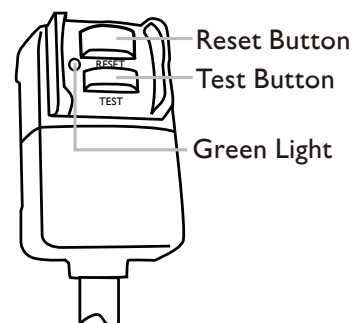
**Note: When abnormal situations occur, turn off machine and pull out plug, then contact with professional electrician for help**

## \* LCDI Plug

If you plug in the Air Conditioner, and there is no green light on the plug, press the reset button on the LCDI plug. The green light should be lit, indicating that the air conditioner is getting power from the electrical outlet.

Make sure unit is plugged directly into a dedicated electrical source/outlet. Do not use any extension cords. See electrical specifications listed on page 3 and make sure the electrical source can accommodate the unit's energy consumption.

If the plug continues to trip (which is a USA national safety standard feature) and the green light goes off, the cord may be damaged preventing you from resetting the unit. For your safety, contact a licensed electrician.



# AMERICAN COMFORT

## WORLDWIDE

### One Year Limited Warranty

American Comfort Worldwide LLC ("ACW") warrants this ACW portable air conditioner to the original retail purchaser ("Purchaser") purchasing only in the 48 Contiguous States, for one year from the date of purchase, against defects in material and workmanship under normal use and service. Should your ACW Portable air conditioner prove defective within one year from the date of purchase, please follow our return procedure to return the defective unit. Within the first 30 days, ACW is responsible for the freight cost to and from our authorized service center for all units with an ACW authorized RMA. After 30 days and up to life of warranty (12 months), customer is responsible for freight costs to and from our authorized service center.

ACW's sole obligation under this warranty is to replace, or at ACW's discretion, to repair, free of charge, all defective parts, for a period of one (1) year from date of original purchase. All replacement parts and units will be new, remanufactured, or refurbished. ANY IMPLIED WARRANTY OF MERCHANTABILITY IS SIMILARLY LIMITED TO ONE (1) YEAR FROM DATE OF ORIGINAL PURCHASE AND NO ACTION BASED UPON ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OTHERWISE MAY BE COMMENCED AFTER EXPIRATION OF ONE (1) YEAR FROM DATE OF ORIGINAL RETAIL PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Proof of Purchase (i.e. copy of receipt) must be sent with the unit.

The provisions of this warranty shall not apply to any product which in ACW's judgment has been (1) subject to misuse or neglect. (2) damaged in an accident. (3) used for a purpose for which it was not designed, or (4) repaired or altered in any way that adversely affected its performance or reliability. Do not attempt to "open unit", except for filter replacement. Opening unit will void manufacturer's warranty.

#### THIS WARRANTY DOES NOT COVER:

- Damage, accidental or otherwise, to the unit while in the possession of the consumer not caused by a defect in material or workmanship.
- Damage caused by consumer misuse, tampering, or failure to follow the care and special handling provisions in the instructions.
- Damage to the finish of the case, or other appearance parts caused by the wear.
- Damage caused by repairs or alterations of the unit by anyone other than those authorized by American Comfort Worldwide.
- Freight and Insurance cost for the warranty service beyond 30 days from date of purchase up to life of warranty (12 months).

This warranty covers only new products purchased from our authorized dealers or retailers. It does not cover used, salvaged, or refurbished products.

To obtain warranty service, the defective product or part must be shipped or delivered to: American Comfort Worldwide, the Manufacturer. If warranty applies under ACW's approved terms, all Shipping charges and insurance are covered by purchaser.

AMERICAN COMFORT WORLDWIDE NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH ITS PRODUCTS, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. NO RESPONSIBILITY IS ASSUMED FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES THAT MAY RESULT FROM THE USE OF AN ACW PRODUCT, NOR FOR THE DAMAGES DUE TO ACCIDENT, ABUSE, LACK OF RESPONSIBLE CARE, THE AFFIXING OF ANY UNAUTHORIZED ATTACHMENT, LOSS OF PARTS, OR USE AT A VOLTAGE OTHER THAN SPECIFIED. Some states do not allow the exclusion of limitation of incidental or consequential damages, so these limitations may not apply to you. ACW disclaims all liabilities for defects or damages caused by use of replacement parts obtained from or by service at any service center other than American Comfort Worldwide, the Manufacturer.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**QUESTIONS? Call 1-877-613-1800 [www.AmericanComfort.com](http://www.AmericanComfort.com)**

Dear Customer: Please keep this warranty for your records, along with a copy of the original receipt.  
**DO NOT** return it.